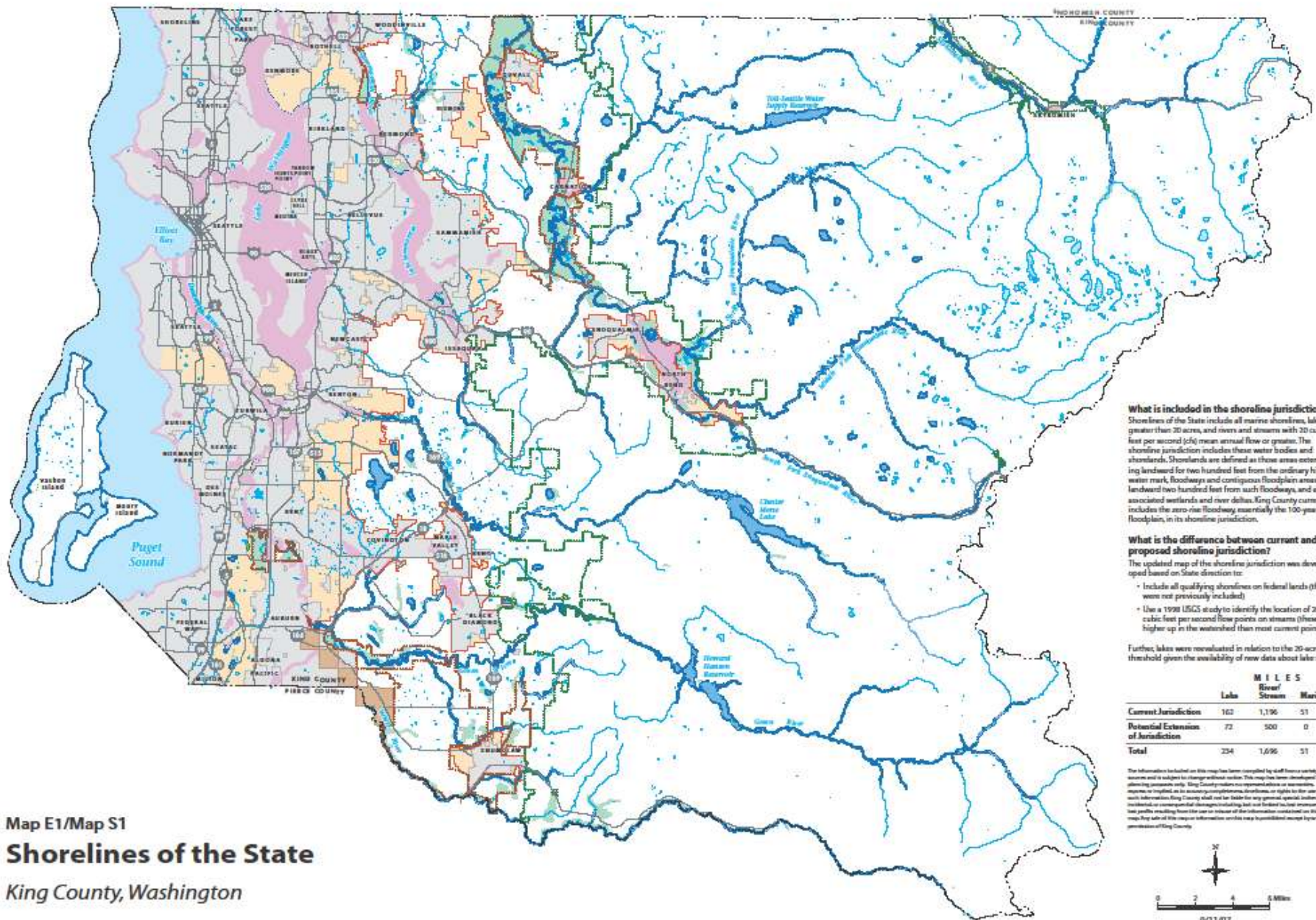


# King County Shoreline Environment Designations

From Characterization to  
Designation



**What is included in the shoreline jurisdiction?**  
 Shorelines of the State include all marine shorelines, lakes greater than 20 acres, and rivers and streams with 20 cubic feet per second (cfs) mean annual flow or greater. The shoreline jurisdiction includes these water bodies and shorelands. Shorelands are defined as those areas extending landward for two hundred feet from the ordinary high water mark, floodways and contiguous floodplain areas landward two hundred feet from such floodways, and all associated wetlands and river deltas. King County currently includes the area via floodway, essentially the 100-year floodplain, in its shoreline jurisdiction.

**What is the difference between current and proposed shoreline jurisdiction?**

The updated map of the shoreline jurisdiction was developed based on State direction to:

- Include all qualifying shorelines on federal lands (these were not previously included)
- Use a 1990 USGS study to identify the location of 20 cubic feet per second flow points on streams (these are higher up in the watershed than most current points)

Further, lakes were reevaluated in relation to the 20-acre threshold given the availability of new data about lake size.

	MILES		
	Lake	River/Stream	Marine
Current Jurisdiction	162	1,196	51
Potential Extension of Jurisdiction	72	500	0
Total	234	1,696	51

The information included on this map has been compiled by staff from a variety of sources and is subject to change without notice. This map has been developed for planning purposes only. King County makes no representation or warranty, express or implied, as to the accuracy or completeness of the information or the use of such information. King County shall not be liable for any general, special, incidental, or consequential damages or liabilities that may be incurred by any person or entity, including those for use or misuse of the information contained on this map. King County will not be responsible for any third-party claims or liabilities arising from the use of this map.





# Characterizing the Shorelines

All Marine shorelines



Rivers with  
20 cfs  
mean  
annual flow.

Lakes greater  
than 20 acres



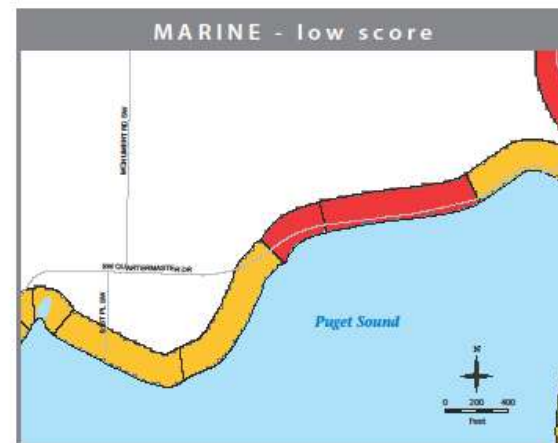
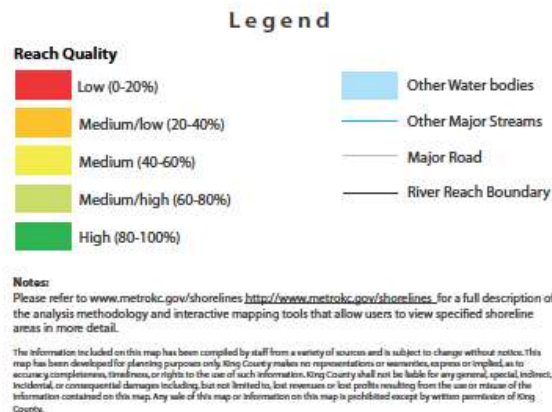
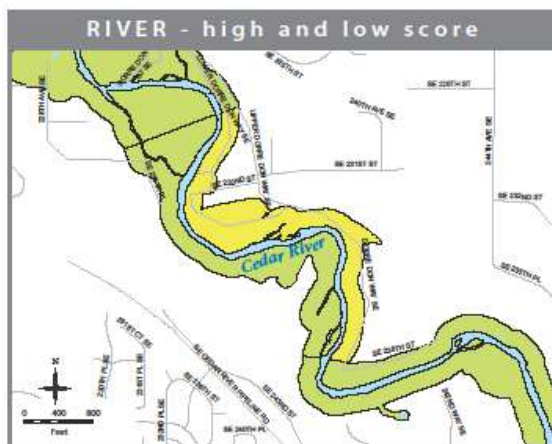
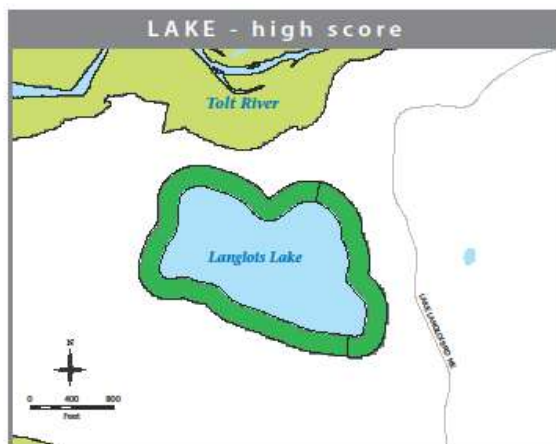
# Ecological Characterization

- Inventory of shoreline conditions;
- Determined ecosystem-wide physical processes could be assessed;
- Evaluated alterations in the chosen processes within the shoreline jurisdiction (from minimally to significantly altered by changes in land use).

# Physical Processes evaluation

10 different processes on 3 shoreline types

	Shoreline Type		
Ecological Process	Marine	Lake	River
Light	X	X	X
LWD	X	X	X
Nitrogen	X	X	X
Phosphorus	X	X	X
Pathogens	X	X	X
Toxins	X	X	X
Sediment	X	X	X
Water Cycle	X	X	X
Wave Energy	X	X	
Tidal Influences	X		



**Map 9**  
**Examples of Shoreline Alterations Analysis Results**  
 King County, Washington

Produced by:  
 DNRP/WLRD  
 GIS, Visual Communications & Web Units

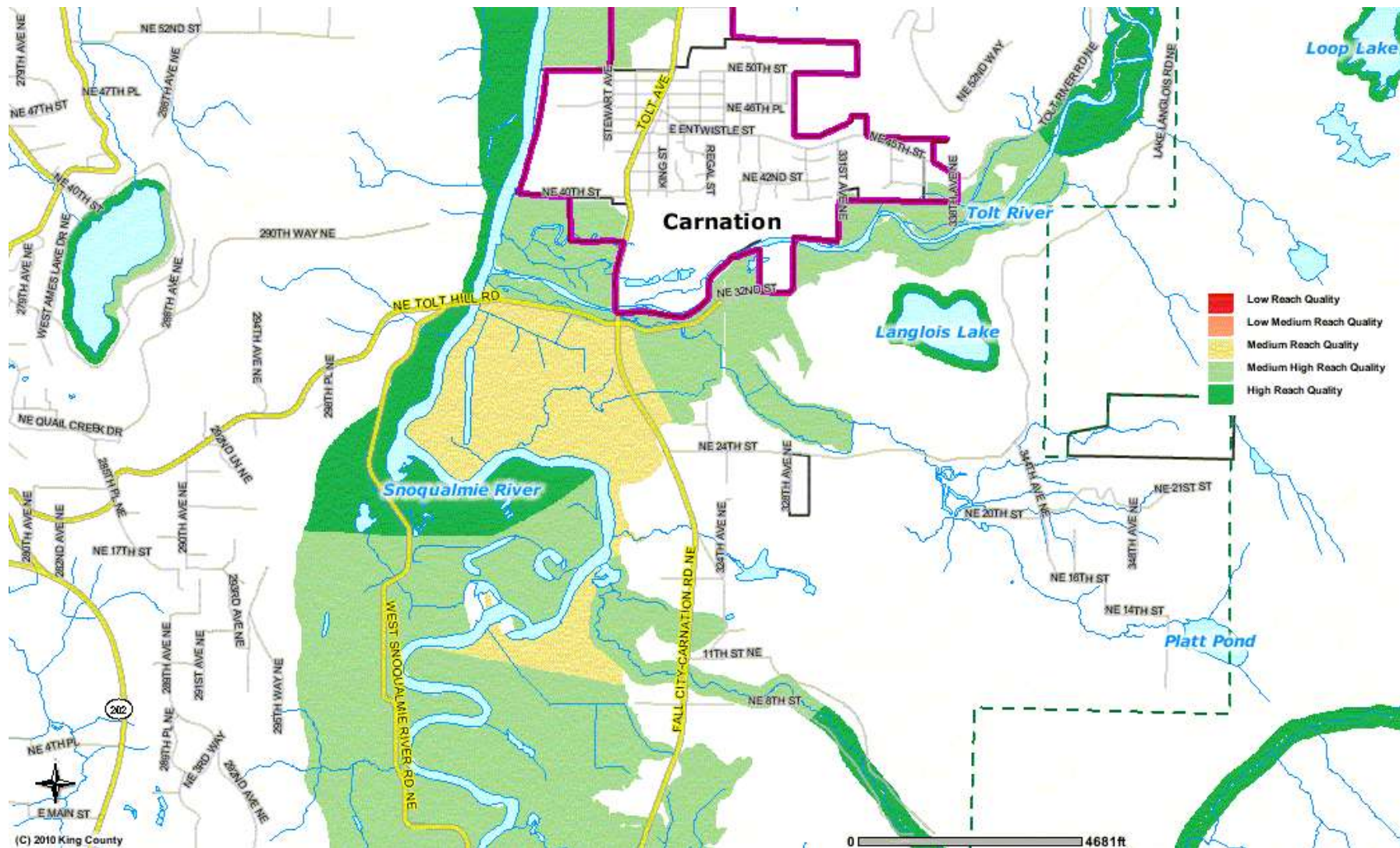
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**King County**  
 Department of Natural Resources and Parks  
 Water and Land Resources Division



This map illustrates the shoreline jurisdiction area in Carnation, Washington. The jurisdiction is shaded in pink and follows the banks of the Snoqualmie River, Tolt River, and Langlois Lake. Key streets shown include NE 40th St, NE 42nd St, NE 44th St, NE 46th St, NE 48th St, NE 50th St, NE 52nd St, NE 54th St, NE 56th St, NE 58th St, NE 60th St, NE 62nd St, NE 64th St, NE 66th St, NE 68th St, NE 70th St, NE 72nd St, NE 74th St, NE 76th St, NE 78th St, NE 80th St, NE 82nd St, NE 84th St, NE 86th St, NE 88th St, NE 90th St, NE 92nd St, NE 94th St, NE 96th St, NE 98th St, NE 100th St, NE 102nd St, NE 104th St, NE 106th St, NE 108th St, NE 110th St, NE 112th St, NE 114th St, NE 116th St, NE 118th St, NE 120th St, NE 122nd St, NE 124th St, NE 126th St, NE 128th St, NE 130th St, NE 132nd St, NE 134th St, NE 136th St, NE 138th St, NE 140th St, NE 142nd St, NE 144th St, NE 146th St, NE 148th St, NE 150th St, NE 152nd St, NE 154th St, NE 156th St, NE 158th St, NE 160th St, NE 162nd St, NE 164th St, NE 166th St, NE 168th St, NE 170th St, NE 172nd St, NE 174th St, NE 176th St, NE 178th St, NE 180th St, NE 182nd St, NE 184th St, NE 186th St, NE 188th St, NE 190th St, NE 192nd St, NE 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# Lake and River Nitrogen Quality

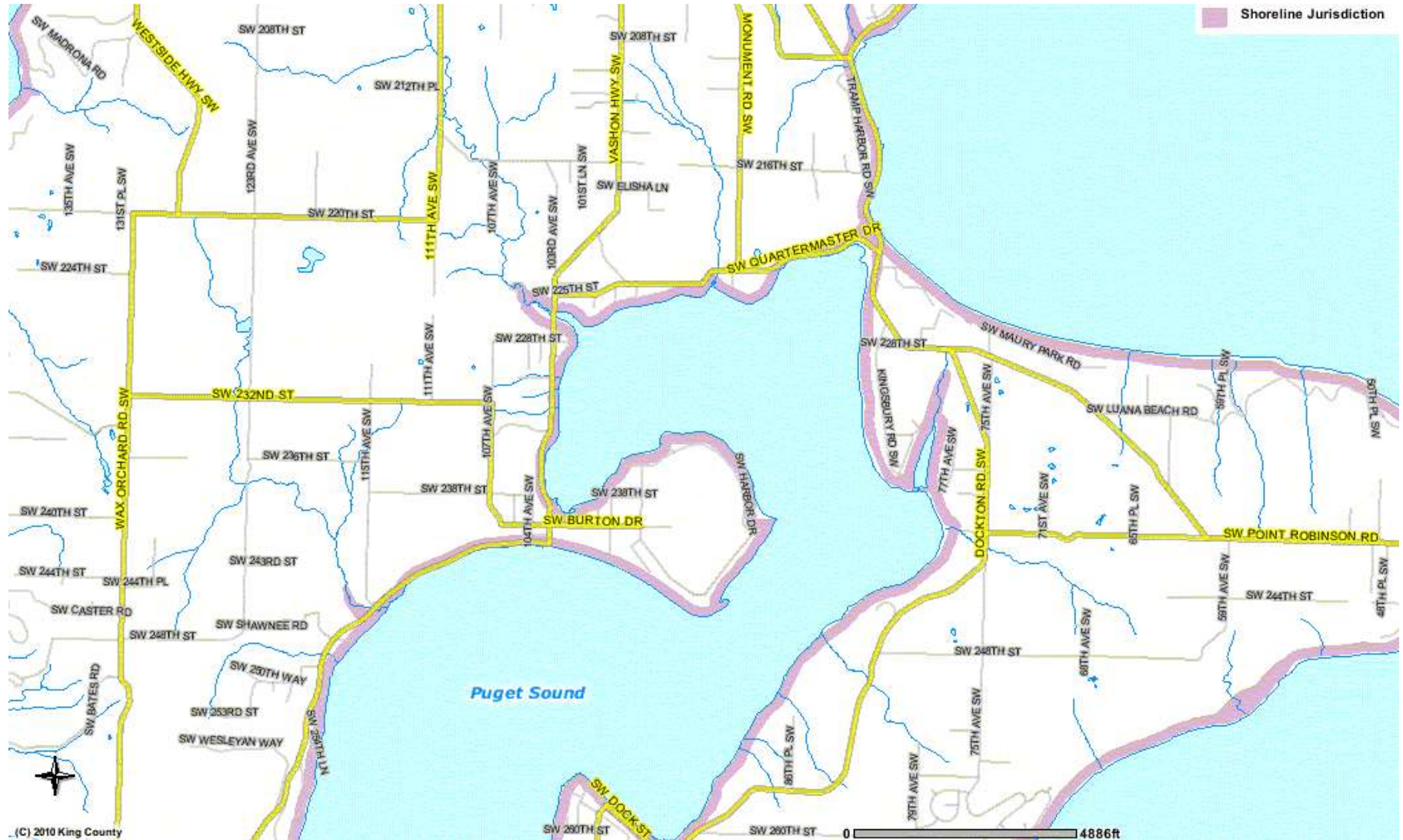




### Loop Lake

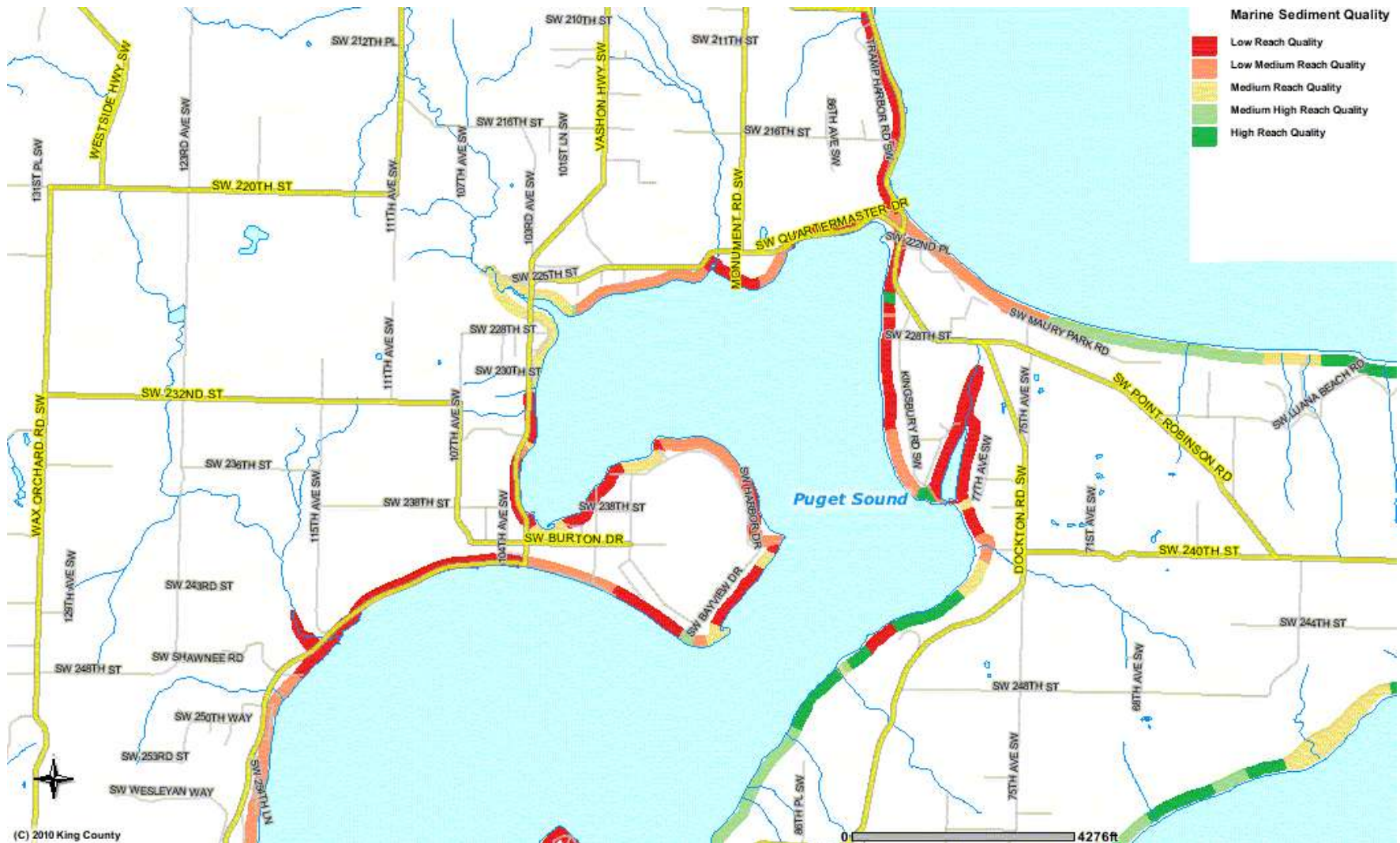


# Marine Shoreline Jurisdiction



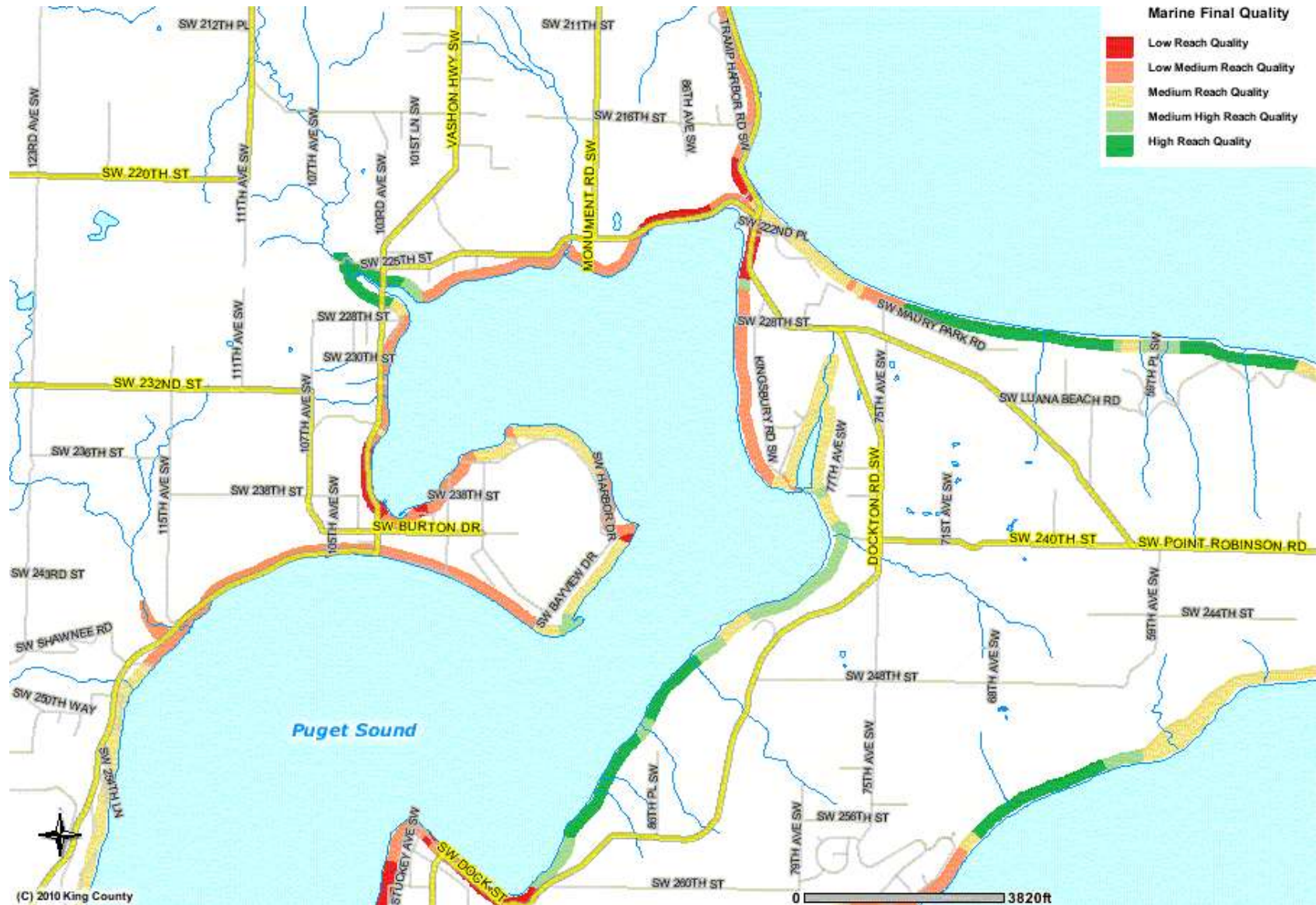


# Marine Sediment Quality





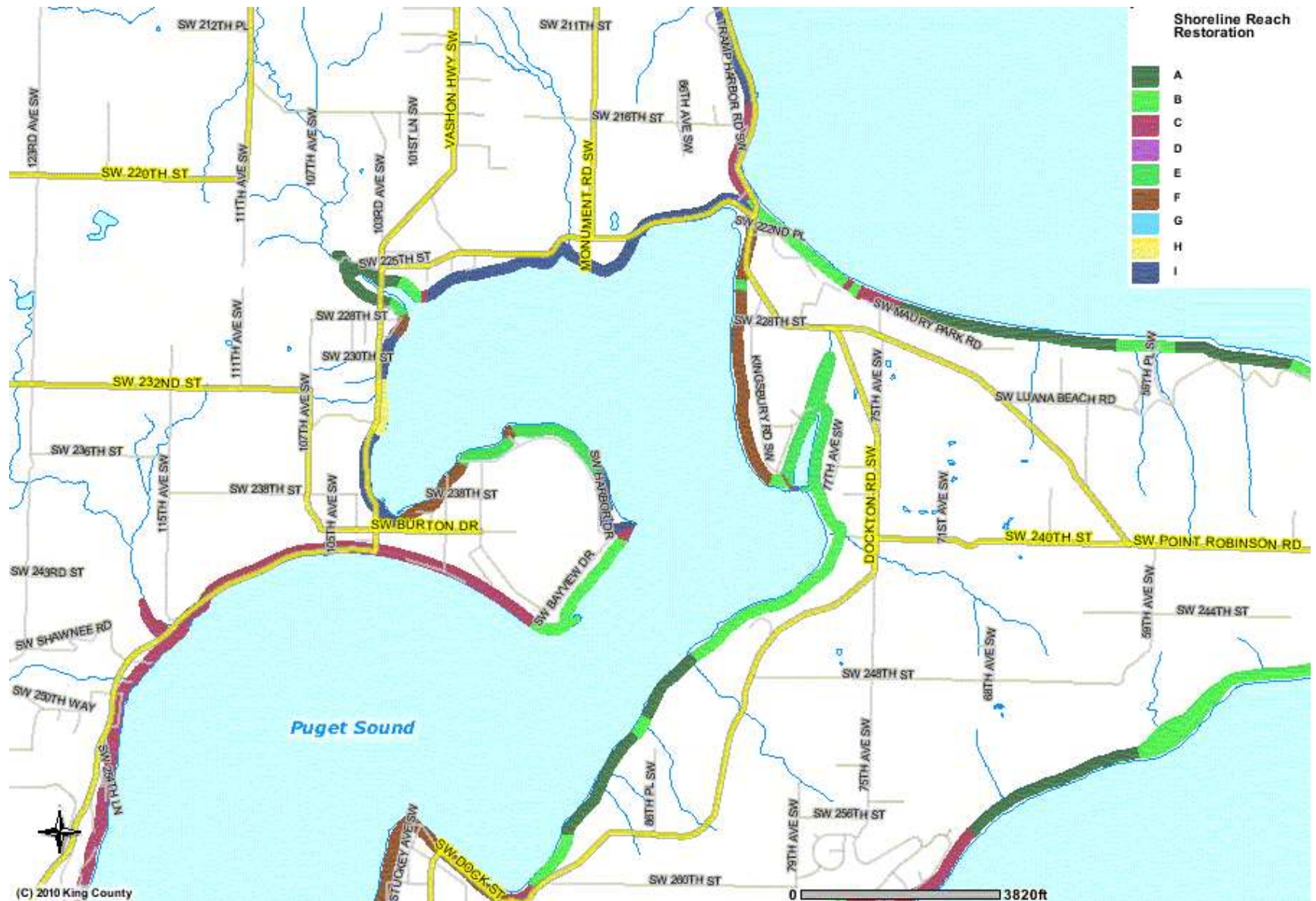
# Marine Final Score



# Protection and Restoration Actions

Shoreline Reach/Drift cell Condition	Low (L)	<b>C (H:L)</b> Restore Enhance	<b>F (M:L)</b> Enhance Restore	<b>I (L:L)</b> Enhance Create
	Moderate (M)	<b>B (H:M)</b> Enhance Restore Conserve Preserve	<b>E (M:M)</b> Conserve Enhance Restore	<b>H (L:M)</b> Enhance Create
	High (H)	<b>A (H:H)</b> Conserve Preserve	<b>D (M:H)</b> Conserve Enhance Restore Preserve	<b>G (L:H)</b> Enhance Conserve
		High (H)	Moderate (M)	Low (L)
Basin Condition				

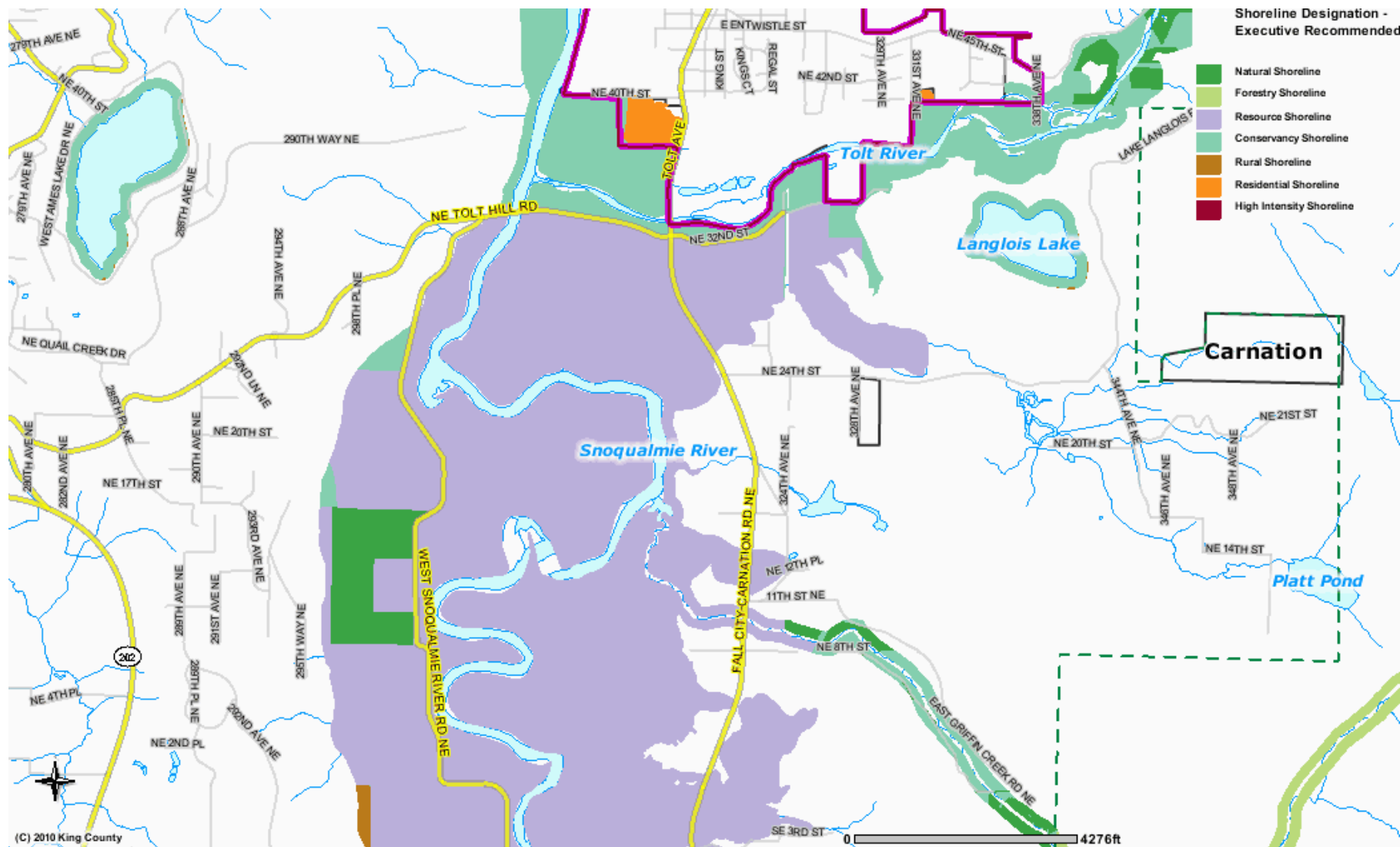
# Marine Restoration







# Lake and River Proposed Shoreline Designations



# Marine Existing Shoreline Designations





